UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

38137

7590

07/02/2008

ABELMAN, FRAYNE & SCHWAB 666 THIRD AVENUE, 10TH FLOOR NEW YORK, NY 10017 EXAMINER

BATES, ZAKIYA W

ART UNIT PAPER NUMBER

3676

DATE MAILED: 07/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,695	02/03/2006	Vladimir Nikolaevich Larin	207,156	3938

TITLE OF INVENTION: METHOD OF USING THE EARTH MANTLE SUBSTANCE FOR HYDROGEN PRODUCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	10/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including below or directed oth tions.	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wil pondence address; a	I be mailed to the curren .nd/or (b) indicating a sep	t correspondence address as parate "FEE ADDRESS" for	
		ock 1 for any change of address)	Fee(s) Transmittal. This rs. Each additional p	certificate cannot be used.	or domestic mailings of the for any other accompanying ent or formal drawing, must	
,	7590 07/02 RAYNE & SCHV ENUE, 10TH FLOO Y 10017	VAB		Cartil	ficate of Mailing or Tran	smission g deposited with the United fist class mail in an envelope s above, or being facsimile date indicated below.	
						(Depositor's name)	
			<u> </u>			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,695	02/03/2006		Vladimir Nikolaevich Larii		207,156	3938	
APPLN, TYPE		ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I		E DATE DIE	
	SMALL ENTITY YES		\$300	\$0	FEE TOTAL FEE(S) DUI		
nonprovisional		\$720		\$0	\$1020	10/02/2008	
EXAM		ART UNIT	CLASS-SUBCLASS				
BATES, Za		3676	2. For printing on the pa				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form ted. Use of a Customer A TO BE PRINTED ON "	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornisted, no name will be THE PATENT (print or type data will appear on the patent attornisted (B) RESIDENCE: (CITY)	ely, e firm (having as a n gent) and the names neys or agents. If no printed. e) ttent. If an assignee tssignment.	nember a of up to o name is 3	document has been filed for	
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Corp	poration or other private g	roup entity Government	
	are submitted: To small entity discount p # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claims	tus (from status indicates	is. See 37 CFR 1.27.	☐ b. Applicant is no long	ger claiming SMALL	ENTITY status. See 37 (
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or	the assignee or other party in	
Authorized Signature				Date			
Typed or printed name	e		Registration No				
This collection of inform an application. Confident submitting the completed his form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the lons for reducing this bu	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	on is required to obtain or r 1.14. This collection is est depending upon the indiv te Chief Information Office	etain a benefit by the mated to take 12 mi dual case. Any com r. U.S. Patent and To	public which is to file (an nutes to complete, includi ments on the amount of t rademark Office. U.S. De	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O.	

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Roy 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,695 02/03/2006		02/03/2006	Vladimir Nikolaevich Larin	207,156 3938		
38137 7590 07/02/2008		07/02/2008		EXAMINER		
ABELMAN, FRAYNE & SCHWAB 666 THIRD AVENUE, 10TH FLOOR				BATES, ZAKIYA W		
				ART UNIT	PAPER NUMBER	
NEW YORK, NY	V YORK, NY 10017			3676		
				DATE MAIL ED: 07/02/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 456 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 456 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/567,695	LARIN, VLADIMIR NIKOLAEVICH	
Notice of Allowability	Examiner	Art Unit	
	/Zakiya W. Bates/	3676	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this app i) or other appropriate communication RIGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. X This communication is responsive to applicant's prelimina	ary amendment filed 2/3/06.		
2. 🔀 The allowed claim(s) is/are <u>10-29</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority call a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have			
2. Certified copies of the priority documents hav	e been received in Application No		
3. Copies of the certified copies of the priority de	ocuments have been received in this	—— national stage applicat	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the rec	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	rson's Patent Drawing Review (PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<u>_</u> :		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or in the C	office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application	
 Notice of Preferences Cited (1.16 cos2) DNotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	(PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	e nent/Comment	
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	8. 🔲 Examiner's Stateme	nt of Reasons for Allo	wance
of Biological Material	9.		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 28, line 1, the term "method of claim 28" has been replaced by --the method of claim 27-- in order to correct the dependency.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach a method of using Earth mantle substance to produce hydrogen as specifically called for in the claims.

Particularly, Wesley (US 4345650) teaches a method that uses electrical energy in mantle substance for production of hydrocarbons. The reference fails to teach forming a reaction cavity, applying water to interact with intermetallic compounds causing a reaction to release hydrogen as specifically called for in the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Zakiya W. Bates/ whose telephone number is (571) 272-7039. The examiner can normally be reached on Monday-Friday, 8:30 AM-5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer Gay can be reached on (571) 272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Zakiya W. Bates/ Primary Examiner Art Unit 3676

zb June 16, 2008